

Current trends in lunar ranging

L. Combrinck, H. Noda, J. M. Torre

– Three “technical” talks:

- Timing calibration of the APOLLO Equipment
- Lunar laser ranging at 1064nm
- Geopositioning and precision validation of landing locations on the Moon using LRO NAC images and LRRRs

– Four “scientific” talks:

- New results for the INPOP lunar ephemerides: new modellings for the inner structure and IR LLR data
- Update of the IfE LLR analysis model and new fit of relativistic parameters
- Determining parameters of the Moon’s orbital and rotational motion from LLR observations using GRAIL and IERS recommended models
- Parameters of new version of Lunar Ephemeris EPM2016 at the base of LLR observations 1970-2016 years

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- This session had unexpected success: because the theory part had record participation and despite the fact that some presentations had to be moved into other sessions or to posters
- James showed information on the long-term data quality at APOLLO station
- Clement proposed an opportunity for stations having a limited link budget to increase drastically their data
- Liu presented an alternative method for the geopositioning of landing locations
- Talks by Agnes, Franz, Vladimir and Eleonora show the evolution of the theories, new models and affect of taking into account new parameters
- Mike, thank you for having increased the duration of the session by 10 minutes. Please add 20 more minutes for the next workshop...